### PATENT COOPERATION TREATY

## **PCT**

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

International application No. International			JRTHER ACTION See Notification of Transmittel of International Preliminary Examination Report (Form PCT/IPEA/418)		
		International filing date (day/month/year) 17.07.2003	Priority date (day/month/year) 19.07.2002		
B65D83/0		r both national classification and iPC			
Applicant GLAXO C	ROUP LIMITED et al.				
1. This Auth	international preliminary e ority and is transmitted to	xamination report has been prepared by t the applicant according to Article 36.	his International Preliminary Examining		
2. This	t. This REPORT consists of a total of 8 sheets, including this cover sheet.				
	heen amended and are t	panied by ANNEXES, i.e. sheets of the de he basis for this report and/or sheets conti tion 607 of the Administrative Instructions	escription, claims and/or drawings which have aining rectifications made before this Authority under the PCT).		
	e annexes consist of a tol	halas abanta			
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	.,				
3. This	report contains indication	s relating to the following items:			
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3. This I II III	report contains indication:  Basis of the opinion Priority Non-establishment	s relating to the following items: n t of opinion with regard to novelty, inventiv	e step and industrial applicability		
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# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP 03/07937

I.	Basis	of the	report
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1. With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

Description, Pages			
	1-49	•	as originally filed
	Clai	ms, Numbers	
	1-25	5	as originally filed
	Dra	wings, Sheets	
	1/11	-11/11	as originally filed
2.	With	n regard to the langua Juage in which the inte	nge, all the elements marked above were available or furnished to this Authority in the ernational application was filed, unless otherwise indicated under this item.
	The	se elements were ava	allable or furnished to this Authority in the following language: , which is:
		the language of a tra	nslation furnished for the purposes of the international search (under Rule 23.1(b)).
		the language of publi	cation of the international application (under Rule 48.3(b)).
		the language of a tra Rule 55.2 and/or 55.3	nslation furnished for the purposes of International preliminary examination (under 3).
3.	With inte	n regard to any <b>nucle</b> rnational preliminary e	otide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:
		contained in the inter	mational application in written form.
		filed together with the	e international application in computer readable form.
		furnished subsequen	itly to this Authority in written form.
		furnished subsequer	itly to this Authority in computer readable form.
			ne subsequently furnished written sequence listing does not go beyond the disclosure pplication as filed has been furnished.
		The statement that the listing has been furn	he information recorded in computer readable form is identical to the written sequence ished.
4.	The	e amendments have r	esulted in the cancellation of:
		the description,	pages:
		the claims,	Nos.:
		the drawings,	sheets:

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## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

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5:		This report has been establish been considered to go beyond	ed as i the di	f (some of) t sclosure as f	he amendments had not been made, since they have iled (Rule 70.2(c)).	
		(Any replacement sheet contain report.)	ining s	uch amendn	nents must be referred to under Item 1 and annexed to this	
3.	Add	Itional observations, if necessa	ry:			
V.	. Lac	k of unity of invention	į	;		
١.	ln re	esponse to the invitation to resti	ict or p	oay additiona	al fees, the applicant has:	
		restricted the claims.				
		paid additional fees.				
		paid additional fees under prot	est.			
	×	neither restricted nor paid addi	tional f	ees.		
2.		This Authority found that the re Rule 68.1, not to invite the app	quiren licant t	nent of unity to restrict or	of invention is not complied with and chose, according to pay additional fees.	
3.	This	his Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3				
		complied with.				
	図	not complied with for the follow	/ing re:	asons:		
	see	separate sheet				
4.		sequently, the following parts omination in establishing this rep		nternational a	application were the subject of international preliminary	
		all parts.				
	×	the parts relating to claims No	s. 1 <b>-</b> 15			
V.	Res cita	soned statement under Artic tions and explanations supp	le 35(2 orting	2) with regai such stater	rd to novelty, inventive step or industrial applicability; nent	
1.	Stat	ement				
	Nov	eity (N)	Yes: No:	Claims Claims	3,4,7,8,15 1,2,5,6,9-12,14	
	Inve	entive step (IS)	Yes: No:	Claims Claims	3,4,7,8,15	
	Indu	ustrial applicability (IA)	Yes: No:	Claims Claims	1-15	
2.	Cita	itions and explanations				

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see separate sheet

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# Re Item IV Lack of unity of invention

The international preliminary examining authority is of the opinion that the application does not comply with the requirements of unity of invention as set forth in the PCT regulations (Article 34(3), Rule 68(1) PCT).

- 1. Reference is made to the following documents:
  - D1: Annales Françaises De Chronometrie Et De Microtechnique, Observatoire De Besancon. Besancon, Fr (1998), 47, 97-105

D2: US 2002/066451 A1 (DAVIES MICHAEL BIRSHA ET AL) 6 June 2002 (2002-06-06)

- 2. The separate inventions are:
  - a) A medicament dispenser for use with a medicament carrier having multiple distinct medicament doses carried thereby, comprising:

indexing means and counting means for counting eah time a distinct medicament dose of the medicament carrier is indexed by said indexing means

wherein said counting means is provided as a distinct eletronic counter unit that is reversibly receivable by the medicament dispenser according to any of claims 1 to 15.

b) A medicament dispenser for use with a medicament carrier having multiple distinct medicament doses carried thereby, comprising indexing means and

analogue counting means for counting eah time a distinct medicament dose of the medicament carrier is indexed by said indexing means and manipulating means to manipulate an analogue count indicium provided by said analogue counting means according to any of claims 6 to 8.

The present application relates to the general problem of counting the doses of medicament dosed from a dispenser.

This object is achieved by means of the features common to both the independent claims 1 and 16, namely:

- a medicament dispenser for use with a medicament carrier having multiple distinct medicament doses carried thereby, said dispenser having an internal mechanism for dispensing the distinct medicament doses carried by said medicament carrier, said mechanism comprising:
- a) receiving means for receiving the medicament carrier
- b) release means for releasing a distinct medicament dose from the medicament carrier on receipt thereof by said receiving means
- c) an outlet, positioned to be in communication with he medicament dose releasable by said release means
- d) indexing means for individually indexing the distinct medicament doses of the medicament carrier and
- e) counting means for counting eah time a distinct medicament dose of the medicament carrier is indexed by said indexing means

The documents D1 and D2 disclose both such a device comprising all features common to independent claims 1 and 16 (see in particular D1 page 99 (vue arrière) and D2 paragraph 51).

The subject-matter of claim 1 (first invention) differs from the known device in that the counting means is provided as a distinct electronic counter unit that is reversibly receivable by the medicament dispenser.

The effect of this feature is apparently that the counter can display information in a digital form and is readily re-usable.

The subject-matter of claim 16 (second invention) differs from the known device in that manipulating means to manipulate an analogue count indicium provided by the analogue counting means are provided.

The effect of this feature is apparently that the analogue count indicium provided by the

analogue counting means gives an understandable indication to the user.

Thus, the special technical features (analysed above) of each invention are clearly not the same. Furthermore, they are not "corresponding", since, as can be seen from the analysis, they have neither same or corresponding effects, nor are they relating to the same objective. A further consideration under Rule 13.2 PCT revealed no further features derivable from the application that may be considered as constituting contributions over the art common to all inventions. Hence, the inventions do not meet the circumstances of Rule 13.2 PCT and Rule 13.1 PCT is not satisfied.

For the purposes of Article 34(3)(c) PCT and in accordance with Rule 68.5 PCT claims 1-15 are considered to relate to the main invention.

#### Re Item V

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

#### 1. State of the art

Reference is made to the following documents:

- D3: US-B-6 360 7391 (GODFREY JAMES WILLIAM ET AL) 26 March 2002 (2002-03-26)
- D4: US-A-5 544 647 (EBELING FREDERICK A ET AL) 13 August 1996 (1996-08-13)
- D5: US-A-6 029 659 (O'CONNOR JAMES A) 29 February 2000 (2000-02-29)

### 1. Novelty

The document D3 is regarded as being the closest prior art to the subject-matter of independent claim 1, and discloses (the references in parentheses applying to this document see figures 1 and 7):

a medicament dispenser for use with a medicament carrier (2) having multiple distinct medicament doses carried thereby, said dispenser having an internal mechanism (1,20,40,41) for dispensing the distinct medicament doses carried by said medicament carrier, said mechanism comprising:

a) receiving means (41) for receiving the medicament carrier

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- b) release means (6,4,see figure 1) for releasing a distinct medicament dose from the medicament carrier on receipt thereof by said receiving means
- c) an outlet (5), positioned to be in communication with he medicament dose releasable by said release means
- d) indexing means (44,45) for individually indexing the distinct medicament doses of the medicament carrier and
- e) counting means (47) for counting eah time a distinct medicament dose of the medicament carrier is indexed by said indexing means

wherein said counting means (47) is provided as a distinct eletronic counter unit (see column 7 lines 15-20) that is reversibly receivable (see column 5 lines 9-19) by the medicament dispenser.

The subject-matter of independent claim 1 is therefore not novel (Article 33(2) PCT). The applicant should note that the expression "multiple distinct medicament doses" contained in claim 1 has been interpreted as multiple doses of medicament distinct in the dosed state, the applicant is therefore invited to clarify this expression. Also the expression indexing means is very broad and therefore D3 is considered to disclose said feature.

Dependent claims 2,5,and 6,9-12 and 14 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty, see for example D3 figure 7 and column 7 line 20 where: -the dispenser has an housing and said electronic counter unit is reveribly receivable in said housing (claim 2)

-the electronic counter unit comprises a unit housing, a LCD display and a protecting viewing window (claim 5)

#### 2.Inventive step

Dependent claims 3,4,7,8 and 15 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of inventive step, see documents D3-D5 and the corresponding passages cited in the search report.

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